



PATENT

Attorney Docket No. NNM-001 (7596/2)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Technology Center 2600

APPLICANT(S): Mayes and Tyler

SERIAL NO.: 09/308,166 GROUP NO.: 2754

FILING DATE: June 25, 1999 EXAMINER: Not Yet Assigned

TITLE: MAGNETIZABLE DEVICE

Commissioner for Patents  
Washington, D.C. 20231

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the references listed on the accompanying Form PTO-1449 for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the references are enclosed.

As required under 37 C.F.R. §1.98(a)(3), Applicants provide a concise explanation of Applicants' understanding of Japanese language reference C8, an article by Tadashi Matsunaga entitled "Synthesis of Nano-Scale Ultrafine Particles Using Biomolecules." The reference appears to disclose formation of ultrafine magnetite particles using microorganisms.

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed before the mailing of the **first Office action** on the merits.

Respectfully submitted,

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Date: May 7, 2002  
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05-09-02

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TRANSMITTAL  
FORM

Application Serial Number	09/308,166	<b>RECEIVED</b>
Filing Date	June 25, 1999	
First Named Inventor	Mayes	<b>MAY 13 2002</b>
Group Art Unit	2754	<b>Technology Center 2600</b>
Examiner Name	Not Yet Assigned	
Attorney Docket No.	NNM-001 (7596/2)	

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form  <input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets <u>      </u> ]  <input type="checkbox"/> Petition for Extension of Time  <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations (A25-A30, B2-B6, C7-C13)  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553)  <input type="checkbox"/> Formal Drawing(s)  <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal  <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application  <input type="checkbox"/> Small Entity Statement  <input type="checkbox"/> CD(s) for large table or computer program  <input type="checkbox"/> Amendment After Allowance  <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences  <input type="checkbox"/> Appeal Brief (in triplicate)  <input type="checkbox"/> Status Inquiry  <input checked="" type="checkbox"/> Return Receipt Postcard  <input type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8  <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8  <input type="checkbox"/> Additional Enclosure(s) (please identify below)
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## SIGNATURE BLOCK

Respectfully submitted,  
  
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SHEET 1 OF 2

FORM PTO - 1449

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: NNM-001 (7596/2)

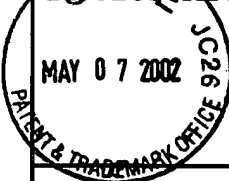
APPLICANTS: Mayes and Tyler

SERIAL NO.: 09/308,166

FILING DATE: June 25, 1999

GROUP: 2754

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## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A25	4,849,210	07/18/89	Widder			08/11/87
	A26	5,069,216	12/03/91	Groman <i>et al.</i>			09/19/89
	A27	5,338,617	08/16/94	Workinger <i>et al.</i>			11/30/92
	A28	5,512,332	04/30/96	Liberti <i>et al.</i>			04/22/94
	A29	5,690,903	11/25/97	Hainfeld			05/30/95
	A30	6,180,389 B1	11/30/01	Douglas			01/03/97

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B2	8800060 A1	01/14/88	PCT				N	
	B3	0 525 199	02/03/93	EP				N	
	B4	9305818 A1	04/01/93	PCT				N	
	B5	0884739 A1	12/16/98	EP				N	
	B6	9946782 A2	09/16/99	PCT				N	

## OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C7	Harris "The Production of Paracrystalline Two-Dimensional Monolayers of Purified Protein Molecules," Micron, Pergamon Press Ltd., United Kingdom, Vol. 13, No. 2, pgs. 147-168 (1982)
	C8	Matsunaga "Synthesis of Nano-Scale Ultrafine Particles Using Biomolecules," Kagaku (Kyoto), Vol 46, ISS. 7, pg. 498 (1991)
	C9	Meldrum <i>et al.</i> "Synthesis of Inorganic Nanophase Materials in Supramolecular Protein Cages," Nature, vol. 349, No. 21 (Feb. 1991)

EXAMINER

DATE CONSIDERED



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SHEET 2 OF 2

FORM PTO - 1449		ATTORNEY DOCKET NO.: NNM-001 (7596/2)	
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANTS: Mayes and Tyler	
		SERIAL NO.: 09/308,166	
		FILING DATE: June 25, 1999	
		GROUP: 2754	
OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C10	Bidan <i>et al.</i> "New Nanocomposites Based on Tailor Dressed Magnetic Particles in a Polypyrrole Matrix" Advanced Materials, VCH Verlagsgesellschaft, Weinheim, Germany Vol. 6, No. 2, pgs. 152-155 (Feb. 1, 1994)	
	C11	Xu <i>et al.</i> "Collapse of Apo- and Magnetoferritins at the Air-Water Interface," J Colloid Interface Sci, vol. 167, No. 2, pgs. 314-319 (1994)	
	C12	Gider <i>et al.</i> "Classical and Quantum Magnetism in Synthetic Ferritin Proteins" Journal of Applied Physics, American Institute of Physics, New York, Vol. 79, No. 8, pgs. 5324-5326 (April 15, 1996)	
	C13	Moskowitz, <i>et al.</i> "Determination of the Preexponential Frequency Factor for Superparamagnetic Maghemite Particles in Magnetoferritin," J. Geophys. Res., Solid Earth, American Geophysical Union, Vol. 102, No. B10 (1997)	
EXAMINER		DATE CONSIDERED	

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